

### ABSTRACT

The invention provides for various cell condition measuring devices and methods. One aspect is a mobile wireless monitor. The mobile monitor takes channel quality information and location information for use in cell condition analysis. Another aspect is a fixed wireless monitor. The fixed monitor takes channel quality information and sends it to a monitored source. Another aspect is a method for analyzing cell channel conditions. A baseline of the channel conditions is generated and wireless monitors update the baseline. Another aspect is a method for base station site selection. A mobile wireless monitor is used to determine an optimum base station site.